

1. A right rectangular prism has edges of  $2\frac{1}{4}$  in, 2 in and  $1\frac{1}{2}$  in. How many cubes with lengths of  $\frac{1}{4}$  in. would be needed to fill the prism? What is the volume?
  
  
  
  
  
  
  
  
  
  
2. Find the volume of a rectangular prism with dimensions  $1\frac{1}{2}$  in,  $1\frac{1}{2}$  in and  $2\frac{1}{2}$  in. How many cubes with lengths of  $\frac{1}{2}$  in. would be needed to fill the prism?
  
  
  
  
  
  
  
  
  
  
3. A flower box is 3 feet long,  $1\frac{3}{4}$  feet wide, and  $\frac{1}{2}$  feet deep. How many cubic feet of dirt can it hold?
  
  
  
  
  
  
  
  
  
  
4. Draw a diagram to match the rectangular prism whose width is  $3\frac{1}{2}$  in, length is 4 in and height is  $2\frac{3}{4}$  in.

5. Mr. White is trying to store boxes in a storage room with length of 8 yd, width of 5 yd and height of 2 yd. How many boxes can fit in this space if each box is  $2\frac{1}{4}$  feet long  $1\frac{1}{2}$  feet wide and 1 foot deep?
6. Linda keeps her jewelry in a box with dimensions  $8\frac{1}{4}$  in by  $3\frac{3}{4}$  in by 4 in. Find the volume of Linda's jewelry box.
7. A rectangular container has a length of 6 inches, a width of  $2\frac{1}{2}$  inches, and height of  $4\frac{1}{4}$  inches. What is the Volume?
8. A flower box is 4 ft. long,  $2\frac{3}{4}$  ft. wide, and  $\frac{1}{2}$  ft. deep. How many cubic feet of dirt can it hold?
9. A box has a length of  $\frac{3}{4}$  ft., a width of  $\frac{1}{2}$  ft., and a height of 4 ft. How many presents can I ship if they are in square boxes measuring  $\frac{1}{2}$  ft. on each edge?
10. Explain why the volume of a cube with side lengths  $1\frac{1}{2}$  in,  $1\frac{1}{2}$  in,  $1\frac{1}{2}$  in is  $3\frac{3}{8} \text{ in}^3$ . Draw the diagram to match this prism.